

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

WALTER D. BROADHEAD

3. ADDRESS OF OPERATOR

1645 North 7th, Grand Junction, CO 81501 (303/242-7717)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1520' FSL & 2440' FWL, in the NE₄SW₄, of Section 5

At proposed prod. zone

approximately same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9.9 miles Northeasterly of Cisco, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1520'

16. NO. OF ACRES IN LEASE

480

17. NO. OF ACRES ASSIGNED
TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

0.5 mile

19. PROPOSED DEPTH

1800'

20. ROTARY OR CABLE TOOLS

rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 4611'

22. APPROX. DATE WORK WILL START*

September 10, 1981

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 5/8"	7"	17#	150'	circulate cement to surface
6 1/4"	4 1/2"	9.5#	TD	100 sx cement

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" Ten-Point Compliance Program
- "C" Blowout Preventer Diagram
- "D" Multi-Point Requirements for APD
- "E" Route & Distance Road Map
- "F" Access Road and Radius Map of Wells in Area
- "G" Drill Pad Layout
- "H" Drill Rig Layout
- "I" Production Facility Layout

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE 10-5-81
BY *[Signature]*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Walter D Broadhead

TITLE

operator

DATE

August 19, 1981

(This space for Federal or State office use)

PERMIT NO.

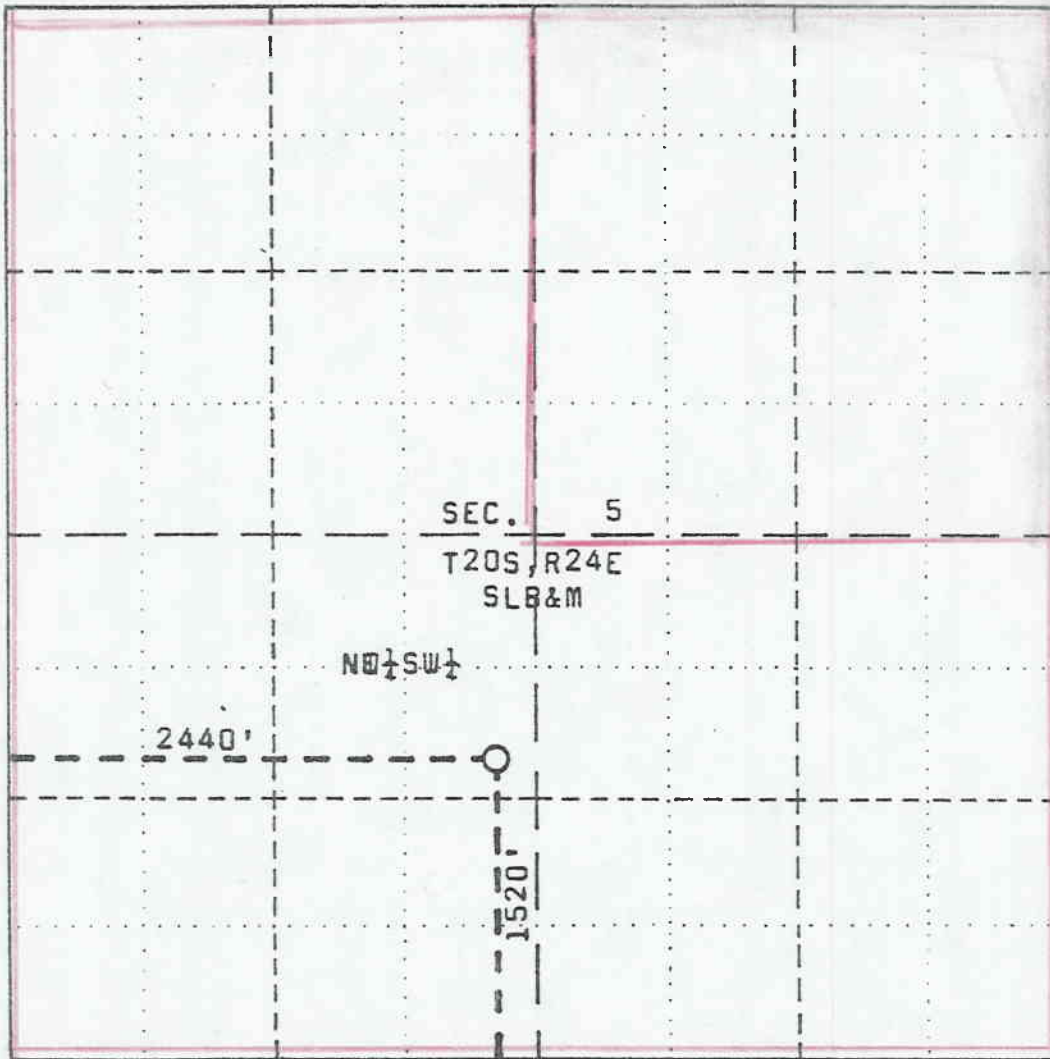
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



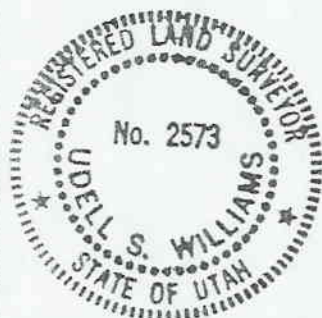
SCALE: 1" = 1000'

KEAS FEDERAL NO. 5

Located North 1520 feet from the South boundary and East 2440 feet from the West boundary of Section 5, T20S, R24E, SLB&M.

Elev. 4611

Grand County, Utah

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

Udell S. Williams
UTAH R.L.S. NO. 2573

**UDELL S. WILLIAMS**

751 Rood Avenue
GRAND JUNCTION, COLORADO 81501

PLAT OF
PROPOSED LOCATION

KEAS FEDERAL NO. 5
NE 1/4 SW 1/4 SECTION 5
T20S, R24E, SLB&M

SURVEYED BY: USW DATE: 7/13/81
DRAWN BY: USW DATE: 7/13/81

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM OF NTL-6

APPROVAL OF OPERATIONS

WLATER D. BROADHEAD
Federal Keas No. 5
NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec 5, T20S, R24E, SLB&M
Grand County, Utah

1. Geologic Surface Formation

The surface formation is Mancos.

2. Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Brush Creek	1780

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

<u>Formation</u>	<u>Depth</u>	<u>Fluids</u>
Brush Creek	1780	Gas and/or Oil and/or Water

4. Proposed Casing Program

Surface Casing:

- (a) Drill 8 5/8" hole to 100' and set 7" 17-lb. cemented to surface.
- (b) Drill 6 1/4" hole to 1800' and set 4 1/2" 9.5-lb. with 700-sx cement (50% excess).

5. Operator's Minimum Specifications for Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment planned for use in this well. The BOP's will be hydraulically tested to 1000 psi after nipping up and after any use under pressure. Pipe rams will be operationally checked each trip. All tests will be recorded in the daily drilling report. Accessories to BOP's include Kelly Cock, safety valve, drill string BOP and choke with pressure rating equivalent to the BOP stack.

6. Type of Characteristics of Proposed Muds

The well will be drilled with air and air mist until water is encountered, then it will be completed with mud. One hundred barrels of 8.5- to 9-lb. mud will be mixed up for use in drilling or in the event it is needed to kill well or logging operations.

7. Auxiliary Equipment to be Used

- (a) Kelly Cock will be kept in the string.
- (b) A full opening stabbing valve will be on the floor for use, when the Kelly is not in the string.
- (c) A float will be run at the bit.
- (d) Monitoring equipment will be installed and used on the mud system.

8. The Testing, Logging and Coring Programs

- (a) Drill stem tests are not planned at this time.
- (b) The logging program will consist of Induction Electric & Compensated Nuclear Density.
- (c) No coring is planned.
- (d) Drilling samples will be caught at 30' intervals BSC to 1650'; from 1650' to TD samples at 5' intervals.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

No abnormal gas pressures or temperatures are expected. No hydrogen sulfide or other hazardous gasses or fluids have been reported in the area.

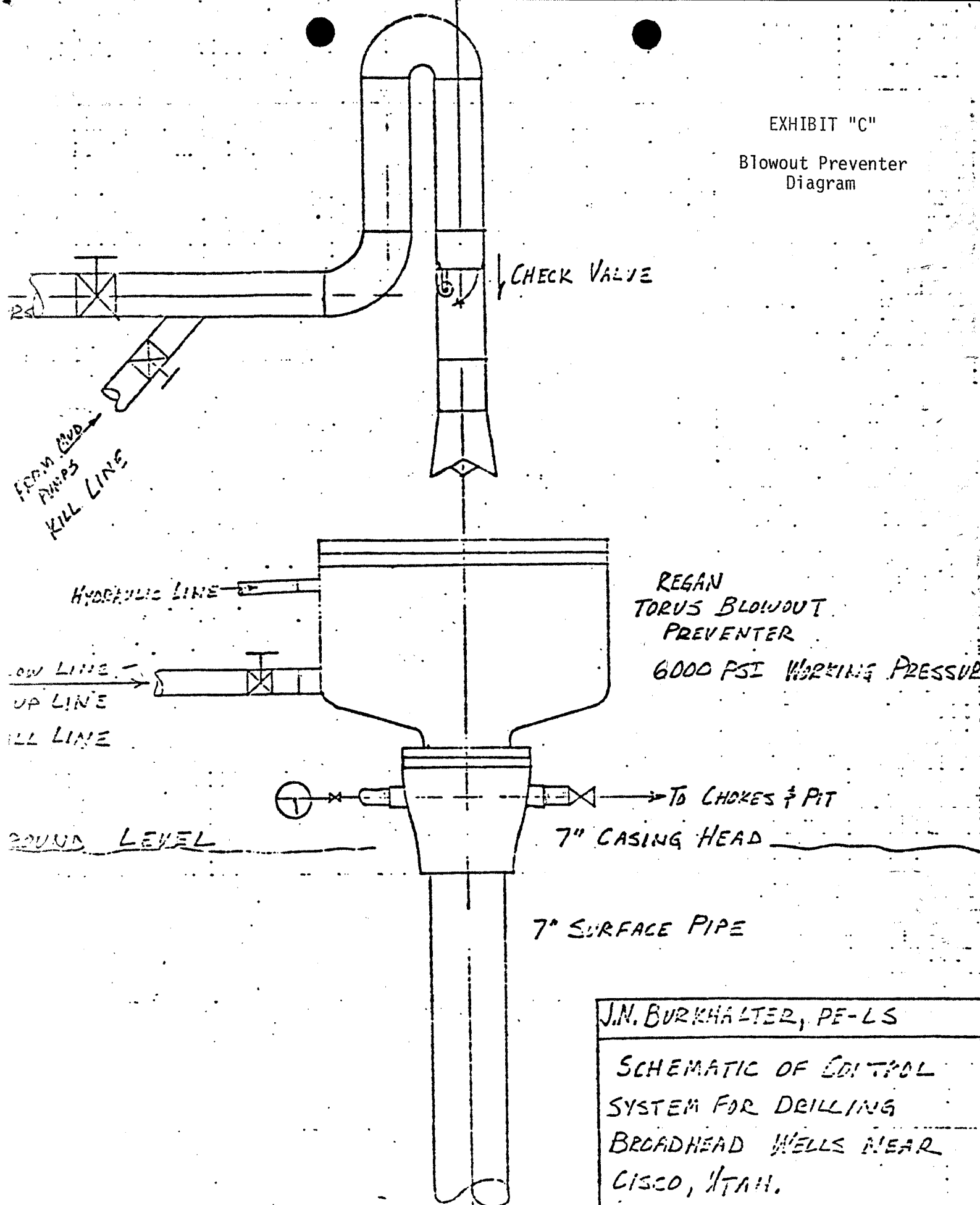
10. Anticipated Starting Date and Duration of Operations

The anticipated starting date is September 10, 1981, or as soon as possible after approval of all drilling requirements.

Drilling operations should be completed 7 to 10 days after spudding.

EXHIBIT "C"

Blowout Preventer
Diagram



J.N. BURKHALTER, PE-LS

SCHEMATIC OF CONTROL
SYSTEM FOR DRILLING
BROADHEAD WELLS NEAR
CISCO, UTAH.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY APD

WALTER D. BROADHEAD
Federal Keas No. 5
NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec 5, T20S, R24E, SLB&M
Grand County, Utah

1. Existing Roads

- A. Exhibit "A" is the proposed well site as staked by Udell S. Williams, and the ground elevation is shown thereon.
- B. Exhibit "E" is the route and distance road map. The location is a total of 9.9 miles Northeasterly from Cisco, Utah. To reach the location travel Northeasterly from Cisco 5.4 miles on old U.S. Highway 6 & 24; turn left and go under Interstate 70 and proceed Northerly on 30' Grand County gravelled road for a distance of 2.7 miles to a 3-way intersection (corrals are on the right); turn right onto a 25' dirt road (old railroad bed) and go Northeasterly 1.3 miles to a "y" intersection (Agate Oil Field lies on the right); turn left and go Northerly 0.1 mile on 14' roadway; turn left and go Westerly 0.1 mile on 14' roadway to the beginning of the proposed access road to be constructed; continue on Northwesterly 0.3 mile to the location.
- C. Exhibit "F" is a print of a portion of the Danish Flat, Utah- Quadrangle and shows the access road into the location. The green color shows the existing road. The red color indicates new road construction required to reach the location.
- D. All known existing roads appear on Exhibits "E" and "F".
- E. This is considered a Development Well.
- F. All roads from Cisco to the Agate Oil Field are in good condition and carry heavy truck traffic regularly. The next 0.2 mile of existing roadway will be maintenance graded as equipment moves in to construct well pad.

2. Planned Access Roads

The 0.3 mile of new access road will be of minimum disturbance. The brush will be bladed off and windrowed along the Northerly side of the road.

- (1) The typical section of the proposed access road will be 16' in width.
- (2) Maximum grade will be 2% to 4%.
- (3) No turnouts are required.
- (4) (5) No culverts are necessary.
- (6) Surface material will be that native to the area.
- (7) No gates or cattleguards are required.
- (8) The proposed access road has been flagged.

3. Location of Existing Wells

For all existing wells within a one-mile radius of the development well, see Exhibit "F".

- (1) There are no water wells.
- (2) Abandoned wells - see Exhibit "F".
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no drilling wells.
- (6) Producing wells - see Exhibit "F".
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other resources.

4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of this location are existing facilities owned or controlled by lessee/operator as shown on Exhibit "F".
- B.
 - (1) Exhibit "I" shows all anticipated production facilities.
 - (2) The dimensions of production facilities shown on Exhibit "I" are drawn to a scale of 1" = 40'.
 - (3) The only construction materials needed from outside the location would be gravel for a pad under separator and/or dehydrator unit. Gravel would be trucked into the location over the access road by the dirt contractor from the nearest commercial pit in the Cisco area.
 - (4) If a small pit is required, it will be fenced and flagged.
- C. Rehabilitation, whether the well is productive or not, will be made on unused areas as soon as practical in accordance with the restoration plans presented in Item 10 following.

5. Location and Type of Water Supply

- A. Water will be trucked from Cisco Springs, 11.8 road miles Westerly of the location.
- B. Water will be trucked over the access road by oilfield water trucks.
- C. No water well is planned.

6. Source of Construction Materials

A., B., C., D.

No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from local gravel pit in the Cisco area. No special access other than for the drilling operation is needed.

7. Methods for Handling Waste Disposal

- (1) Drill cuttings will be buried in the reserve pit when covered.
- (2) Drilling fluids will be contained in steel mud pits and the reserve pit. These fluids will be disposed of in the reserve pit.
- (3) Any hydrocarbon liquids produced while drill stem testing or production testing will be collected in a test tank set near the pipe baskets or near the wellhead. Any unavoidable spills of oil or other adverse substances or materials will be covered or removed immediately during drilling progress or during completion operations.
- (4) Chemical toilet facilities will be provided for human waste.
- (5) Garbage and trash will be collected in a trash cage and its contents hauled to the nearest designated landfill.
- (6) The reserve pits will be fenced or covered as soon as practical upon removal of the rig. Other pits will be covered as soon as possible after removal of the rig.

8. Ancillary Facilities

No air strips, camps or other living facilities will be built off the location. The normal trailers will be on the location as seen on Exhibit "H".

9. Well Site Layout

- (1) Exhibit "G" is the drill pad layout. Topsoil will be stockpiled to specifications determined at the pre-drill inspection.
- (2) (3) The mud tanks, reserve pit, trash cage, pipe racks, living facilities, and soil material stockpiled, rig orientation, parking areas and access road are all shown on Exhibit "H".
- (4) The reserve pits will not be lined. Steel mud tanks will be used, and are shown on Exhibit "H". If water is produced in production, an NTL-2b study will be initiated.

10. Plans for Restoration

- (1) Backfilling, leveling, and recontouring will be accomplished as soon as possible after plugging of the well, and on those unused areas if production is obtained. Waste disposal and spoils materials will be buried or hauled away.
- (2) Rehabilitation will be accomplished by recontouring as best practical back to blend with original contours. The stockpiled topsoil will be spread, along with ripping of the pad and road area (if so desired by surface owner). Revegetation will be accomplished using grasses chosen by B.L.M.

- (3) Three sides of the reserve pit will be fenced prior to drilling operations. Upon rig release, the reserve pit will be fenced on the fourth side and will remain until recontouring and cleanup operations are completed.
- (4) Any oil spills will be immediately reported, cleaned up, or flagged.
- (5) Rehabilitation operations will commence as soon as practical after rig moves off location. Earth work and seeding will be done during the Fall of 1981, if possible.

11. Other Information

As indicated on Exhibit "F", the topography of the location vicinity has very little relief. The location lies on a gentle plain which slopes Southeasterly 1-2%. This location lies Northwesterly of the existing Agate Oil Field.

The soil is a light tan to grey shallow soil, typical of Mancos formation.

The vegetation in the immediate area surrounding the location is sagebrush, Matt saltbush, shadscale, prickly pear cactus, Russian thistle, greasewood, and cheatgrass.

The fauna of the area consists of cattle, sheep, antelope, rabbits, lizards, ravens, meadow lark, killdeer, ground sparrows and martens.

The surface ownership is B.L.M. The surface use is grazing, petroleum production, and recreation.

The nearest live water is Cisco Springs, 5.3 air miles Westerly of the location.

The nearest occupied dwelling is in Cisco, Utah, 9.9 road miles Southwesterly of the location, as shown on Exhibit "E".

There are no visible archaeological, historical, or cultural sites within any reasonable proximity to the proposed location site.

There are no reported restrictions or reservations noted on the oil and gas lease.

12. Lessee's or Operator's Representative

Walter D. Broadhead
1645 North 7th Street
Grand Junction, Colorado 81501
Telephone 303/242-7717

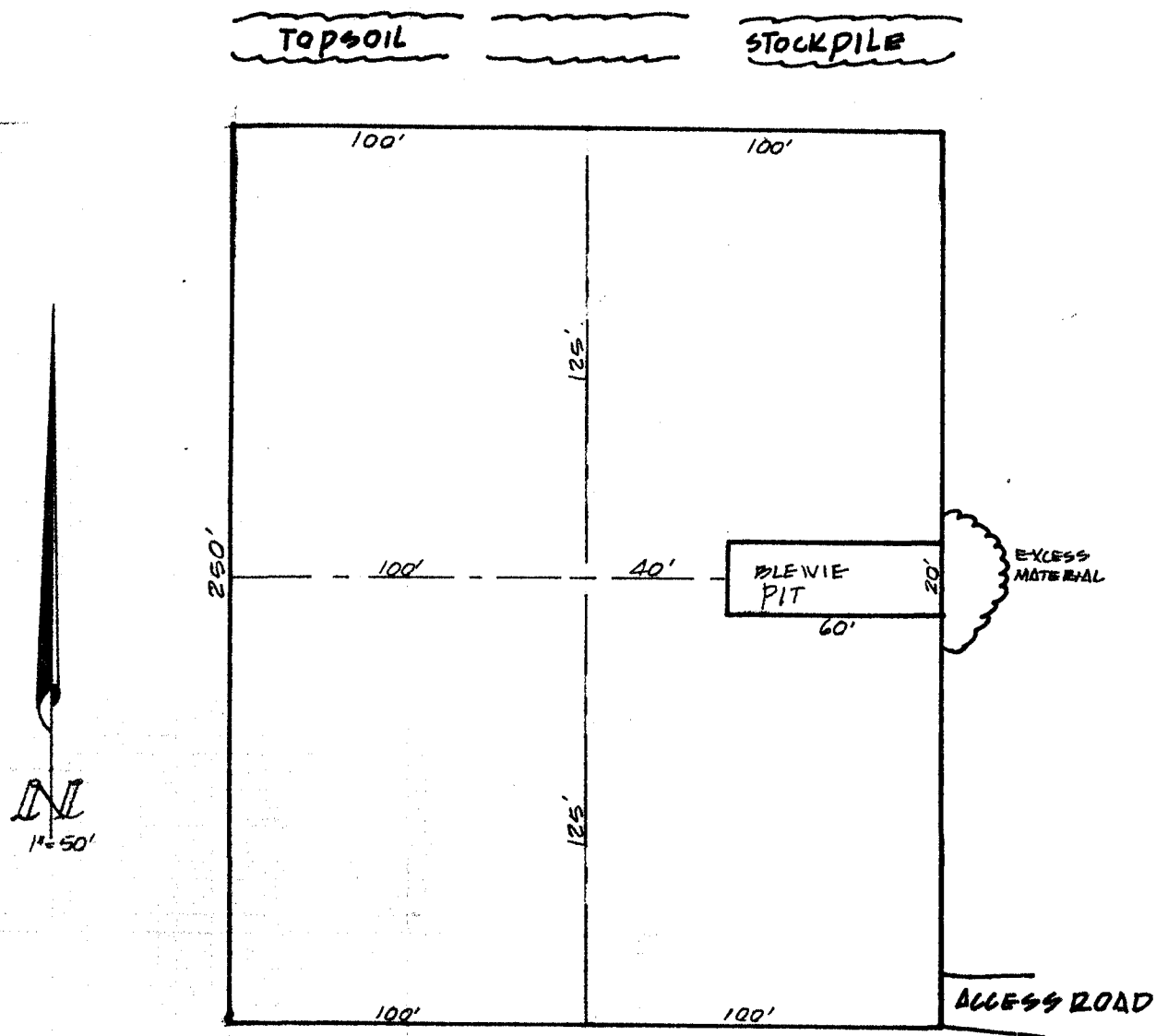
13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by my contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

August 19, 1981
Date

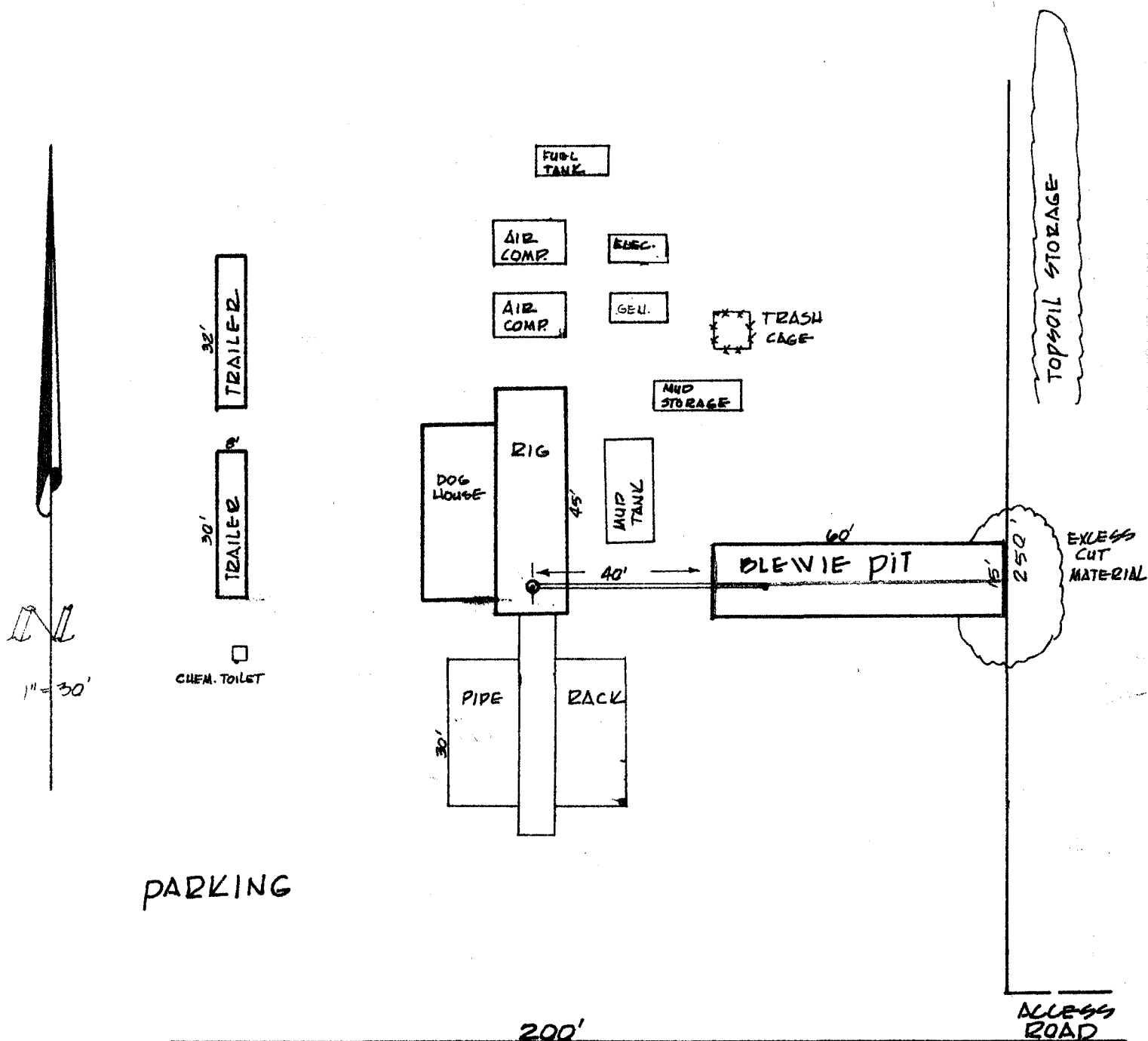
Walter D. Broadhead
Name and Title *operator*

EXHIBIT 'G'
 DRILL PAD LAYOUT
 FEDERAL KEAS NO. 5
 GRAND CO., UTAH



FEDERAL KEAS NO. 5
 WALTER D. BROADHEAD
 MESA COUNTY, COLO.

EXHIBIT 'H' DRILL RIG LAYOUT

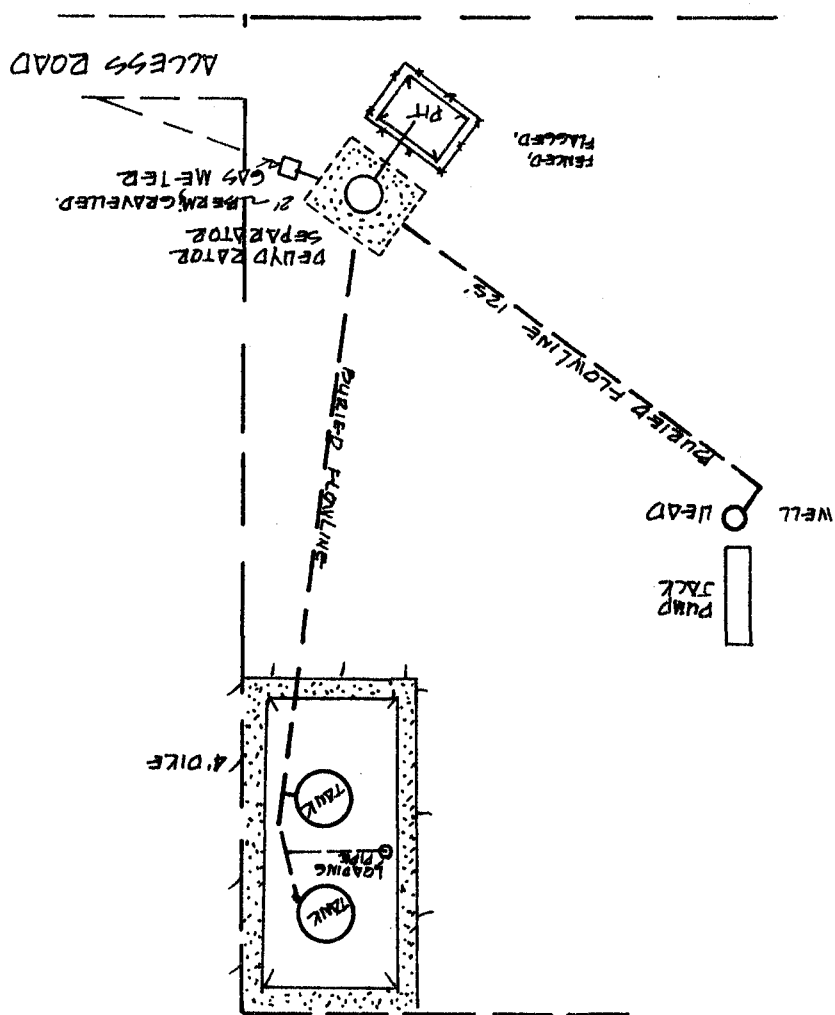


PARKING

FEDERAL KEAS NO. 5
GRAND COUNTY, UTAH

EXHIBIT I
PRODUCTION FACILITIES

FEDERAL LEADS NO. 5
GRAND COUNTY, UTAH



Identification No. 593-81

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator WALTER D. BROADHEAD / FEDERAL KEAS No 5

Project Type GAS WELL

Project Location 1520' FSL, 2440' FWL SEC 5 T 20S R 24E

Well No. 5 Lease No. U-070752

Date Project Submitted 8-26-81

FIELD INSPECTION

Date 9-17-81

Field Inspection
Participants

GEORGE DIWACHAK USGS

ELMER DULCAN BLM

W. BROADHEAD SELF

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

SEP 28 1981
Date Prepared

George J. Diwachak
Environmental Scientist

I concur

SEP 28 1981
Date

W. M. Martin

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 (9-25-81) ↓						6	6 (9-17-81)	4,8
2. Unique charac- teristics	1						6	6	4,8
3. Environmentally controversial	1						6	6	4
4. Uncertain and unknown risks	1						6	6	4
5. Establishes precedents							6	6	4
6. Cumulatively significant							6	6	
7. National Register historic places	1								
8. Endangered/ threatened species	1								4
9. Violate Federal, State, local, tribal law	1						6	6	4,8

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey
(Conservation Division, Geological Division, Water Resource Division,
Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS

RECOMMENDED STIPULATIONS

1. SEE BLM STIPULATIONS



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3109
(U-068)
U-070752

9-25-81

Memorandum

To: Oil & Gas Office
USGS Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84101

From: Area Manager, Grand

Subject: Walter D. Broadhead (APD)
Fed. Keas #5, Lease #U70752
NE/SW Sec. 5, 1. 20 S., R. 24 E. SLB&M
Grand County, Utah

On September 17, 1981 a representative from this office met with George Diwachik USGS, and W.D. Broadhead agent of Walter D. Broadhead for an inspection of the above referenced location. Subject to the attached conditions and written approval from USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Walter D. Broadhead.

Enclosure: (3)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors - Production Facilities



Save Energy and You Serve America!

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

CONSTRUCTION:

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
5. Improvement to the existing road will not be necessary.

New road construction will be limited to a total disturbed width of 16 feet. The allowable travel surface width will be 16 feet. Surface disturbance will be kept to an absolute minimum. Vegetation and limited soils will be windrowed along the north side of the road. Low water crossings will be constructed at each drainage channel.

Topsoil will be saved along the north side of the route.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. The top 6 inches of soil material will be removed from the location and stockpiled on the east side of the location, between the well and location edge. Maximum pad size will be 200 feet X 200 feet at least 100' X 100' will be disturbed for the pad.
7. The reserve pit will not be lined. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted and sufficiently wide for equipment to pass over. The pit(s) will be 6 feet deep.

8. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 48 inches high woven wire with barbed wire along the top.

Rehabilitation

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment. and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 6 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time be specified by the BLM with the enclosed seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover and seed rate applied will be doubled (see mixture attached).
8. After seeding is complete the access will be blocked to prevent any vehicle use.

Production

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. The non-producing area will be re-contoured, ripped or scarified and seeded.
2. All above-ground production facilities will be painted using the attached suggested colors.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

PROPERTY OF BLM TO

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

- Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

SEED MIXTURE

Species

Rate

Grasses

lbs/acre

Oryzopsis hymenoides
Hilaria jamesii

Indian rice grass
Curly grass

1
1

Forbs

Sphaeralcea coccinea

Globemallow

1

Shrubs

Ceretoïdes lanata
Atriplex nuttallii

Winterfat
Nuttal Saltbush

1
1

5

When broadcasting the seed the rate of application will be 10 pounds per acre.

**** FILE NOTATIONS ****

DATE: Oct. 5, 1981

OPERATOR: Walter D. Broadhead

WELL NO: Federal Keas #5

Location: Sec. 5 T. 20S R. 24E County: Grand

File Prepared:



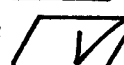
Entered on N.I.D:



Card Indexed:



Completion Sheet:



API Number ²⁰⁴¹² 43-019-30588

CHECKED BY:

Petroleum Engineer:

W.D. Minter 10-5-81

Director:

Administrative Aide:

As Per Order Below,

APPROVAL LETTER:

Bond Required:



Survey Plat Required:



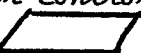
Order No.

102-16B, 92479

O.K. Rule C-3



Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site



Lease Designation



Plotted on Map



Approval Letter Written



Hot Line



P.I.



October 7, 1981

Walter D. Broadhead
1645 North 7th,
Grand Junction, Colo. 81501

RE: Well No. Federal Keas #5,
Sec. 5, T. 20S, R. 24E,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 102-16B, dated August 26, 1979.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

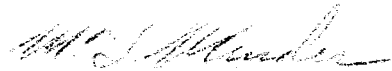
Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30588.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole	5. LEASE DESIGNATION AND SERIAL NO. U-070752
2. NAME OF OPERATOR Walter D. Broadhead	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1645 N 1st Grand Junction, Co 81501	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1520 FSL & 2240 FWL in the NE 1/4 SW 1/4 of Sec 5 T20S R24E	8. FARM OR LEASE NAME Federal
	9. WELL NO. Fed Keas No 5
	10. FIELD AND POOL, OR WILDCAT Greater Cisco Area
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 5 T20S R24E
14. PERMIT NO.	12. COUNTY OR PARISH Grand
15. ELEVATIONS (Show whether DF, RT, OR, etc.)	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Proposed plugging program:

Hole full of 85 lb. mud jelly
no shows of oil or gas
no log run
drilled with air
Dakota 1530'
one plug 1500 1630'

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 11/30/81
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED Walter D. Broadhead TITLE Operator DATE 11/9/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-070752

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

Fed Keas No 5

10. FIELD AND POOL, OR WILDCAT

Greater Cisco Area

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 5 T20S R24E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1.

OIL ☐ GAS ☒ OTHER ☐ Dry Hole

2. NAME OF OPERATOR

Walter D. Broadhead

3. ADDRESS OF OPERATOR

1645 N 1st Grand Junction, Co 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1520 FSL & 2240 FWL in NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec 5
T20S R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Oral approval requested to plug and abandon well granted

7" casing 100'
hole filled with 85 lb. mud
Dakota one plug 1500' to 1630'
one plug 50 to 950
10SX with surf marker

18. I hereby certify that the foregoing is true and correct

SIGNED Walter D. Broadhead

TITLE Operator

DATE 11/9/81

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Walter D. Broadhead

3. ADDRESS OF OPERATOR

1645 N 1st Grand Junction, Co 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1520 FSL 2440' FWL of Sec 5 in NE $\frac{1}{4}$ SW $\frac{1}{4}$

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

43-019-30588 10-6-81

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

11/4/81

11/9/81

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

2180'

Rotary

26. TYPE ELECTRIC AND OTHER LOGS RUN

No logs run

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	17.5 lb	100	9"	circulated to surface	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Walter D. Broadhead

TITLE

Operator

DATE June 9, 1982

*(See Instructions and Spaces for Additional Data on Reverse Side)

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal land and/or State office. See instructions on items 22 and 24, and 23, below regarding separate reports for separate completions.

and/or State once. See instructions on items 22 and 23, and 26, below regarding separate reports and separate attachments. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

should be listed on this form, see item 55.
Item 4: If there are no applicable State or Federal requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

or Federal once for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

For each additional interval to be separately produced, showing the additional data pertinent to such interval, attach a separate report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 34 and 35 above.)

337. SUMMARY OF POROUS ZONES:

ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
<p>THIS SECTION OF THE REPORT SHOWS THE RESULTS OF THE TESTS MADE ON THE CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES AT DEPTH INTERVAL TESTED.</p>			

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Mancus	0	1530'	black shale			
Dakota	1530'	1650'	gray shale white sand			
Morrison	1650'	2000'	red-green shale			
Saltwash	2000'		red-green shale			

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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 25, 1986

TO: Well File

FROM: Mary Alice Peterson

RE: API Number for The Federal Keas #5 Well : Operator,
Walter Broadhead, located 20S 24E sec. 5 Grand County

This well was originally assigned the API number 43-019-30588. Another well drilled later was also assigned the same API number. The second well is the Federal 23-3 located at 20S 21E sec. 23. As the Federal Keas #5 well is P&A we are going to leave the old API number with the Federal 23-3 and assign the Federal Keas #5 a new API number. The new API number assigned is 43-019-20412.

map
0176S 39